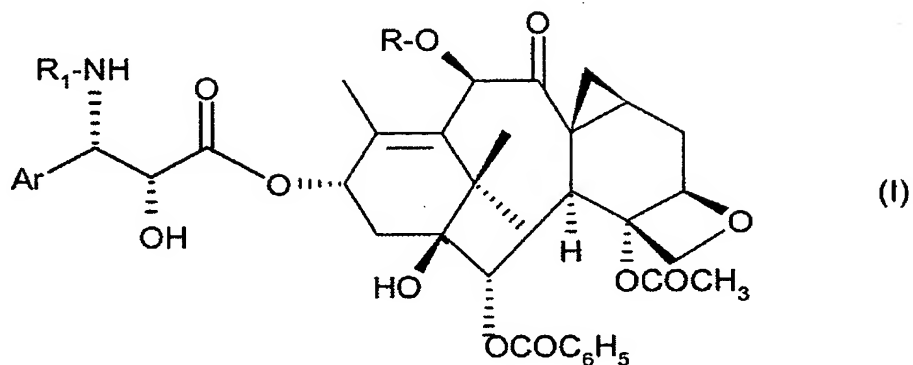


WHAT IS CLAIMED IS:

1. A process for the preparation of a compound of
 5 formula (I)



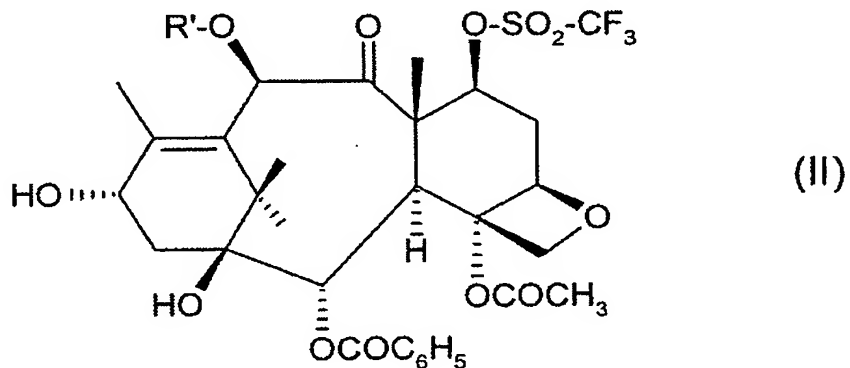
wherein:

Ar is aryl;

R is hydrogen, acetyl, alkoxyacetyl or alkyl;

R₁ is benzoyl or R₂-O-CO- wherein R₂ is straight or
 branched C₁-C₈alkyl;

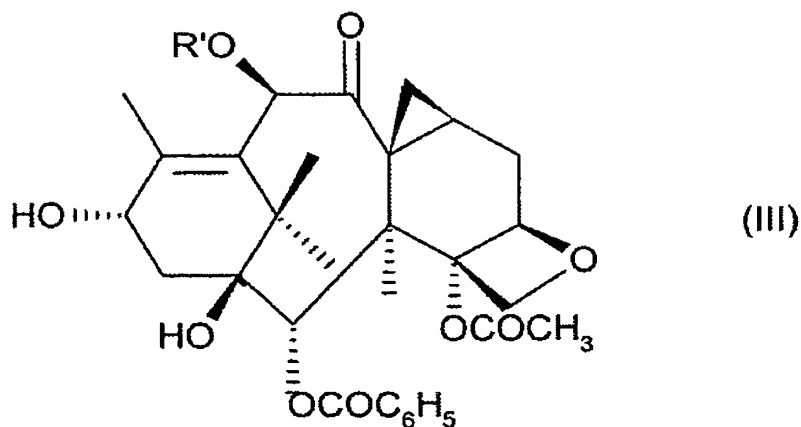
comprising contacting compound of formula (II)
 with a weak base, then successively or beforehand,
 coupling a precursor of the side chain and,
 deprotecting the optionally protected hydroxyl
 functional group, which comprises carrying out the
 cyclopropanation reaction in sulfolane.



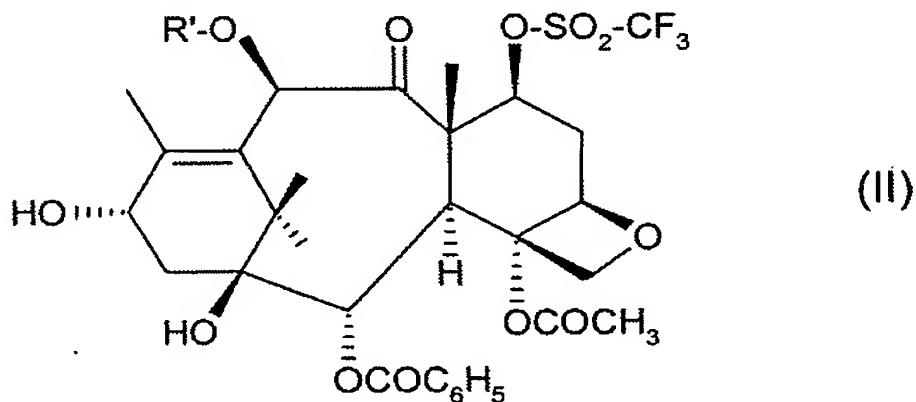
wherein R' is a protective group for the hydroxyl functional group or acetyl, alkoxyacetyl or alkyl.

2. The process as set forth in claim 1, wherein R is
5 acetyl, R₁ is tert-butoxycarbonyl and Ar is phenyl.
3. The process as set forth in claim 1, wherein the
10 weak base is a molecular sieve.
4. The process as set forth in claim 1, wherein the
reaction is carried out in the presence of 4 Å
molecular sieve as activated powder.
- 15 5. The process as set forth in claim 3, wherein the
molecular sieve and the compound of formula (II)
are present in about 1 : 1 ratio by weight.
6. The process as set forth in claim 4, wherein the
20 molecular sieve and the compound of formula (II)
are present in about 1 : 1 ratio by weight.
7. The process as set forth in claim 1, wherein the
25 sulfolane comprises from about 2 to about 5% by
weight of water.
8. The process as set forth in claim 7, wherein the
sulfolane comprises about 4% of water.
- 30 9. The process as set forth in claim 1, wherein the
reaction is carried out at a temperature of from
about 20°C to about the boiling point of the
solvent.
- 35 10. The process as set forth in claim 9, wherein the
reaction temperature is about 60°C.

11. The process as set forth in claim 1, wherein the compound of formula (I) is isolated as a crude product by addition of ethyl acetate to the reaction medium, filtration of the molecular sieve, concentration of the reaction medium and then crystallization by addition of water.
12. The process as set forth in claim 11, wherein the crude product is further purified by recrystallization from a solvent or solvent mixture chosen from methanol, a mixture of methanol and diisopropyl ether, a mixture of methanol and toluene, a mixture of sulfolane and toluene, a mixture of methylene chloride and diisopropyl ether, or a mixture of ethyl acetate and diisopropyl ether.
13. The process as set forth in claim 12, wherein the crude product is purified with a mixture of ethyl acetate and isopropyl ether.
14. The process as set forth in claim 13, wherein said solvent mixture is present in a ratio of approximately 25/75 v/v.
15. The process as set forth in claim 1, wherein the precursor of the side chain is chosen by derivatives of β -phenylisoserine protected in the 2' position, oxazolidines or β -lactams.
16. A process for the preparation of a compound of formula (III):



wherein R' is a protective group for the hydroxyl functional group or acetyl, alkoxyacetyl or alkyl; comprising bringing a derivative of general formula (II)



into contact with a molecular sieve, which is carried out in sulfolane.

17. The process as set forth in claim 16, wherein the reaction is carried out in the presence of 4 Å molecular sieve as activated powder.
18. The process as set forth in claim 16, wherein the sulfolane comprises from about 2 to about 5% by weight of water.
19. The process as set forth in claim 16, wherein the sulfolane comprises about 4% of water.

20. The process as set forth in claim 16, wherein the reaction is carried out at a temperature of from about 20°C to about the boiling point of the solvent.
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